

WHAT IS CLAIMED IS:

1. An expansion anchor, comprising:
an expansion unit shaped in a ring-like sleeve, including a plurality of gutters along an axis direction at first end which allows a cambered surface being formed
5 between two adjacent gutters, wherein a number of the cambered surfaces equals to a number of the gutters;
a screw body including a threaded part, a header and a connecting part which connects to the expansion unit at a second end; and
a plug shaped in cone, being used to fit into the first end of the expansion unit.
- 10 2. The expansion anchor of claim 1, wherein the screw body is a circular cylinder.
3. The expansion anchor of claim 1, wherein the threaded part is internally threaded.
4. The expansion anchor of claim 1, wherein the header is shaped in hex.
- 15 5. The expansion anchor of claim 1, wherein the header is shaped in square.
6. The expansion anchor of claim 1, wherein the connecting part of the screw body is a round rod, and there is a hole in the expansion unit which allows the connecting rod fitting right into and connecting the screw body and the expansion
20 unit.
7. The expansion anchor of claim 1, wherein the connecting part of the screw body includes a larger and a smaller holes; there are a raised rod and a threaded hole at the second end of the expansion unit and the raised rod fits right into the larger hole and the threaded hole matches the smaller hole; the screw body
25 is connected to the expansion unit by a screw.
8. The expansion anchor of claim 1, wherein the outer diameter of the expansion unit is larger than the outer diameter of the screw body.

9. The expansion anchor of claim 1, wherein the outer surface of the expansion unit at guttered end, where the cambered surfaces are located, is grooved multiple times to increase gripping strength of the expansion unit.

10. The expansion anchor of claim 1, wherein the plug is a round cone or a
5 multi-side cone.